

DETAILED ACTION

Per Applicant's Request for Continued Examination

Claims 1, 16, 21, 30, 50, 52-54 have been amended.

Claims 2-15, 17-20, 22-29, 33-36, 39-42, 45, 48-49, 51, 61-62 have been cancelled.

Claims 87 and 88 have been newly added.

Claims 1, 16, 21, 30-32, 37, 38, 43, 44, 46, 47, 50, 52-60 and 63-88 are pending.

Per Examiner's Amendment

Claims 16, 21, 30, 50 and 63 are amended.

Claims 89-93 are newly added.

Claims 1, 31, 32, 52-60 and 69-87 are cancelled.

Claims 16, 21, 30, 37, 38, 43, 44, 46, 47, 50, 63-68 and 88-93 are allowed.

Continued Examination Under 37 CFR 1.114

I. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/2/2009 has been entered.

Response to Arguments

II. Applicant's arguments (see Remarks pages 19-22 filed 3/2/2009) with respect to Claims 1, 16, 21, 30 and 50 have been fully considered and are persuasive. The rejections of the pending claims have therefore been withdrawn.

Examiner's Amendment

III. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

IV. Authorization for this Examiner's amendment was given in a telephone interview with Atty. Omar Amin on May 21, 2009. Please make the following change to Claim 16, 21, 30, 50 and 63 and add new claims 89-93:

Claim 16: (Currently Amended) A computer-implemented method for delivering information from a first device to a second device, comprising the steps of:

storing a first data object on the first device in a first device-specific representation, wherein the second device stores a second data object corresponding to the first data object in a second device-specific representation, wherein the second representation differs from the first device-specific representation;

receiving information regarding a state of data stored on the second device;

(1) generating ~~an~~ a modification event representative of a modification made to the first data object on the first device to a first data object, wherein the first device stores the first data object in a first representation, wherein after the modification the first data object includes first information; and

(2) delivering said event to the second device, wherein the second device stores a second data object including second information, comprising:

accessing providers for information using state information maintained on behalf of said second device;

receiving said information from said providers, wherein said information is used to generate said event;

determining whether the generated modification event conflicts with another modification event;

determining that the second device has transitioned from an off-line state to an on-line state;

~~determining a content of a batch of information based on state of data on the second device, wherein the batch includes the event and wherein the state of data on the second device is stored on the first device; and~~

generating a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the generated modification event if the generated modification event does not conflict with the other modification event;

delivering the said batch of information to the second device;

~~wherein said event is processed on the second device to recover the modification, wherein the second device stores the second data object in a second representation, wherein the second representation differs from the first representation, wherein the second device updates the second data object based on the recovered modification, and wherein the first device stores the first data object in first representation and the second device stores the second data in a second representation;~~

wherein the second device processes the batch of information, wherein the second device parses the modification event to recover the modification to the first data object on the first device, wherein the second device stores the recovered modification; and

~~(2)~~ updating, at the first device, the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully ~~processed at~~ parsed by the second device.

Claim 21: (Currently Amended) A computer-implemented method for delivering information from a first device to a second device identified as a recipient of said information, comprising the steps of:

storing a first data object on the first device in a first device-specific representation, wherein the second device stores a second data object corresponding to the first data object in a second device-specific representation, wherein the second representation differs from the first device-specific representation;

receiving information regarding a state of data stored on the second device;

~~((1) generating one or more modification events representative of [[a]] modifications made to the first data object on the first device to a data object, wherein after the modification the first data object includes first information; and~~

~~((2) forwarding said modification events to a second device identified as a recipient of said events;~~

~~determining whether the generated modification events conflict with one or more other modification events;~~

~~determining that the second device has transitioned from an off-line state to an on-line state;~~

~~determining a content of a batch of information based on state of data on the second device, wherein the batch includes the event and wherein the state of data on the second device is stored on the first device; and~~

~~generating a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the generated modification events if the generated modification events do not conflict with said one or more other modification events;~~

~~delivering the said batch of information to the second device;~~

~~wherein the second device stores a second data object including second information, wherein said second device processes said events to recover the modification, wherein the second device stores the second data object in a second representation, wherein the second representation differs from the first representation, wherein the second device updates the second data object based on the recovered modification, and wherein the first device stores the first data object in first representation and the second device stores the second data object in a second representation;~~

~~wherein the second device processes the batch of information, wherein the second device parses the modification events to recover the modifications to the first data object on the first device, wherein the second device stores the recovered modifications; and~~

~~((3) updating, at the first device, the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully processed at parsed by the second device.~~

Claim 30: (Currently Amended) A computer system for delivering information from a first device to a second device, comprising:

storage for storing a first data object on the first device in a first device-specific representation, wherein the second device stores a second data object corresponding to the first data object in a second device-specific representation, wherein the second representation differs from the first device-specific representation;

means for receiving information regarding a state of data stored on the second device;

a processor configured to generate ~~an~~ a modification event representative of a modification made to the first data object on the first device to a first data object, wherein the first device is configured to store the first data object in a first representation, wherein after the modification the first data object includes first information;

a communications interface configured to deliver said event to the second device comprising:

means for determining whether the generated modification event conflicts with another modification event;

means for determining that the second device has transitioned from an off-line state to an on-line state;

means for determining a content of a batch of information based on state of data on the second device, wherein the batch includes the event and wherein the state of data on the second device is stored on the first device; and

the processor generating a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the generated modification event if the generated modification event does not conflict with the other modification event;

means for delivering the said batch of information to the second device;

wherein the second device is configured to store a second data object in a second representation, wherein the second device stores a second data object including second information, wherein the second representation is different than the first representation, wherein the second device is configured to process the event to recover the modification, wherein the second device is configured to update the second data object based on the recovered modification, and wherein the first device stores the first data object in first representation and the second device stores the second data in a second representation;

wherein the second device processes the batch of information, wherein the second device parses the modification event to recover the modification to the first data object on the first device, wherein the second device stores the recovered modification; and

means for updating, at the first device, the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully ~~processed at~~ parsed by the second device.

Claim 50: (Currently Amended) A computer program product comprising a tangible computer usable medium having computer readable program means stored in said medium for a first device to deliver information to a second device, said computer readable means comprising:

computer readable program code means for storing a first data object on the first device in a first device-specific representation, wherein the second device stores a second data object corresponding to the first data object in a second device-specific representation, wherein the second representation differs from the first device-specific representation;

computer readable program code means for receiving information regarding a state of data stored on the second device;

~~a first computer readable program code means for enabling a processor configured to generate an a modification event representative of a modification made to the first data object on the first device to a first data object, wherein the first device stores the first data object in a first representation, wherein after the modification the first data object includes first information; and~~

~~a second computer readable program code means for enabling a processor to deliver said event to the second device comprising:~~

computer readable program code means for enabling the processor to determine whether the generated modification event conflicts with another modification event;

~~a computer readable program code means for enabling a processor to access providers for information using state information maintained on behalf of said second device;~~

~~a computer readable program code means for enabling a processor to receive said information from said providers, wherein said information is used to generate said event;~~

~~[[a]] computer readable program code means for enabling [[a]] the processor to determine that the second device has transitioned from an off-line state to an on-line state;~~

~~a computer readable program code means for enabling a processor to determine a content of a batch of information based on state of data on the second device, wherein the batch~~

~~includes the event and wherein the state of data on the second device is stored on the first device; and~~

computer readable program code means for enabling the processor to generate a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the generated modification event if the generated modification event does not conflict with the other modification event;

~~[[a]] computer readable program code means for enabling a processor to delivering the said batch of information to the second device;~~

~~wherein the second device processes said event to recover the modification, wherein the second device is configured to store the second data object based in a second representation, wherein the second representation is different than the first representation, wherein the second device is configured to update the second data object based on the recovered modification, and wherein the first device stores the first data object in first representation and the second device stores the second data in a second representation;~~

wherein the second device processes the batch of information, wherein the second device parses the modification event to recover the modification to the first data object on the first device, wherein the second device stores the recovered modification; and

~~[[a]] computer readable program code means for enabling [[a]] the processor to update, at the first device, the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully processed at~~ parsed by the first second device.

Claim 63: (Currently Amended) The computer system of claim 30, wherein the first representation and the second representation are platform specific ~~or device specific.~~

Claim 89: (New) The method of claim 16, further comprising: if the generated modification event conflicts with the other modification event, resolving the conflict between the generated modification event and the other modification event to generate a new modification event; wherein the batch of information comprises the new modification event if the generated modification event conflicts with the other modification event.

Claim 90: (New) The method of claim 21, further comprising: if the generated modification events conflict with the one or more other modification events, resolving the

conflict between the generated modification events and the one or more other modification events to generate new modification events; wherein the batch of information comprises the new modification events if the generated modification events conflict with the one or more other modification events.

Claim 91: (New) The computer system of claim 30, wherein if the generated modification event conflicts with the other modification event, the processor is configured to resolve the conflict between the generated modification event and the other modification event by generating a new modification event; wherein the batch of information comprises the new modification event if the generated modification event conflicts with the other modification event.

Claim 92: (New) The computer program product of claim 50, wherein if the generated modification event conflicts with the other modification event, the computer readable program code means further enables the processor to resolve the conflict between the generated modification event and the other modification event to generate a new modification event; wherein the batch of information comprises the new modification event if the generated modification event conflicts with the other modification event.

Claim 93: (New) A computer-implemented method for delivering information comprising the steps of:

receiving a first modification event from a first device, wherein the first modification is representative of a modification made to a first data object stored in a first format on the first device;

resolving a conflict between the first modification event and a second stored modification event to generate a third modification event;

receiving information regarding a state of data stored on a second device;

determining that the second device has transitioned from an off-line state to an on-line state;

generating a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the third modification event;

delivering said batch of information to the second device;

wherein the second device processes the batch of information, wherein the second device parses the third modification event to recover a modification; and

updating the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully parsed by the second device.

Reasons for Allowance

The following is an Examiner's statement of reasons for allowance

V. The prior art fails to teach or suggest the features of: storing a first data object on the first device in a first device-specific representation, wherein the second device stores a second data object corresponding to the first data object in a second device-specific representation, wherein the second representation differs from the first device-specific representation; receiving information regarding a state of data stored on the second device; generating a modification event representative of a modification made to the first data object on the first device; determining whether the generated modification events conflict with one or more other modification events; determining that the second device has transitioned from an off-line state to an on-line state; generating a batch of information based at least on the received state of data stored on the second device, wherein the batch of information comprises the generated

modification events if the generated modification events do not conflict with said one or more other modification events; delivering said batch of information to the second device; wherein the second device processes the batch of information, wherein the second device parses the modification events to recover the modifications to the first data object on the first device, wherein the second device stores the recovered modifications; and updating, at the first device, the state of data on the second device based on a confirmation received from the second device, wherein the received confirmation indicates at least that the modification event was successfully parsed by the second device (for support, see Specification pages 23-32).

In particular, the limitations of a first device storing data objects in a device specific representation, while delivering modifications of the data objects as a batch in a different device-specific format, and determining if the modification data conflicts with other modification data, and if so resolving the conflict by generating new modified content; are not specifically taught by the prior art singly or in combination such that the claimed invention would have been anticipated or made obvious to one of ordinary skill in the art. Applicant's arguments further clarify the distinctions between the claim language and the prior art and are thus relied upon by the Examiner as sufficient reasons for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e) (see MPEP 13202.14). A review of Claims 16, 21, 30, 37, 38, 43, 44, 46, 47, 50, 63-68 and 88-93, in view of the Examiner's remarks above, indicates that these claims are therefore allowable over the prior art of record.

Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

VI. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The Examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, William Vaughn can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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